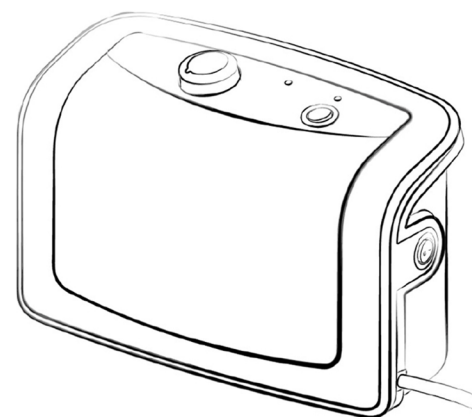


Mason Air AS5300

Low air loss/Alternating pressure mattress
with Protective Foam Base

Instruction Manual



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a/ The ISM (industrial, scientific and medical) bands between 150 kHz and 80 MHz are 6,765 MHz to 6,795 MHz; 13,553 MHz to 13,567 MHz; 26,957 MHz to 27,283 MHz; and 40,66 MHz to 40,70 MHz.

b/ The compliance levels in the ISM frequency bands between 150 kHz and 80 MHz and in the frequency range 80 MHz to 2.5 GHz are intended to decrease the likelihood that mobile/portable communications equipment could cause interference if it is inadvertently brought into patient areas. For this reason, an additional factor of 10/3 is used in calculating the recommended separation distance for transmitters in these frequency ranges.

c/ Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the device.

d/ Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distances between portable and mobile RF communications equipment and this device:

This device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of this device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and this device as recommended below, according to the maximum output power of the communications equipment

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	80 MHz to 800 MHz $d = 1.2\sqrt{P}$	800 MHz to 2,5 GHz $d = 2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23


For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

Guidance and Manufacturer's Declaration - Electromagnetic Immunity:

This device is intended for use in the electromagnetic environment specified below. The user of this device should make sure it is used in such an environment.

Immunity Test	IEC60601 test level	Compliance	Electromagnetic Environment-Guidance
Conducted RF IEC 61000-4-6	3Vrms150 kHz to 80 MHz outside ISM bands ^a	3 Vrms	<p>Portable and mobile RF communications equipment should be used no closer to any part of this device, including cables, than there commended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = 1.2\sqrt{P} \quad 150\text{kHz to } 80\text{MHz}$ $d = 1.2\sqrt{P} \quad 150\text{kHz to } 80\text{MHz}$ $d = 2.3\sqrt{P} \quad 80 \text{ MHz to } 2.5\text{G MHz}$ <p>Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).^b</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey^c, should be less than the compliance level in each frequency range^d.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	
<p>NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			

IMPORTANT SAFEGUARDS

READ ALL INSTRUCTIONS BEFORE USE

DANGER - To reduce the risk of electrical shock:

1. Always unplug this product immediately after using.
2. Do not use while bathing.
3. Do not place or store product where it can fall or be pulled into a tub or sink.
4. Do not place in or drop into water or other liquids.
5. Do not reach for a product that has fallen into water. Unplug immediately.

WARNING - To reduce the risk of burns, electrical shock, fire, or injury:

1. This product should never be left unattended when plugged in.
2. Close supervision is necessary when this product is used by, on, or near children or invalids.
3. Use this product only for its intended use as described in this manual.
4. Do not use attachments not recommended by the manufacturer.
5. Never operate this product if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or exposed to water. Return the product to a service center for examination and repair.
6. Keep the cord away from heated surfaces.
7. Never block the air openings of this product. Never place the product on a soft surface, such as a bed or couch, where the air openings may become blocked. Keep the air openings free of lint, hair, and other similar particles.
8. Never drop or insert any object into any opening or hose on this product.
9. Connect this product to a properly grounded outlet only. See Grounding Instructions.

NOTES, CAUTIONS AND WARNINGS:

- NOTE** - Calls attention to useful information, tips, reminders.
- CAUTION** - Calls attention to correct operating or maintenance procedures in order to prevent damage to or destruction of the equipment or other property.
- WARNING** - Calls attention to a potential danger that requires correct operating procedures or practices in order to prevent personal injury.

SYMBOL Definitions



Authorized representative in the European community.



Manufacturer



Complies with standards protecting against electric shock for type BF equipment.



Attention, you should read the accompanying information carefully!



Attention – Observe proper Disposal of Electrical & Electronic Equipment (WEEE): This product should be handed over to an appropriate collection point for the recycling of electrical and electronic equipment. For more detailed information about the recycling of this product, please contact your local city office, household waste disposal service or the retail store where you purchased this product.



Consult operating instructions



Class II



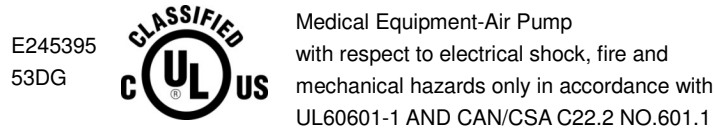
Functional earth.

1. INTRODUCTION

This manual should be used for initial set up of the system and for reference purposes.

1.1 GENERAL INFORMATION

This system is a high quality, affordable mattress system, suitable for the treatment and prevention of pressure ulcers. This product has been tested and successfully approved for the following standards:



Le produit à été testé avec des équipements médicaux et respecte les normes UL 60601-1 & CAN/CSA C22.2 No.601.1. prévenant les choc électrique, le feu et les risques de blessures physiques.

1.2 INTENDED USE

This product is intended:

- to help and reduce the incidence of pressure ulcers while optimizing patient comfort.
- for long term home care of patients suffering from pressure ulcers.
- for pain management as prescribed by a physician.

APPENDIX A: EMC INFORMATION

Guidance and Manufacturer's Declaration- Electromagnetic Emissions:

This device is intended for use in the electromagnetic environment specified below. The user of this device should make sure it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment-Guidance
Harmonic emissions IEC61000-3-2	Class A	The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network.
Voltage fluctuations / Flicker emissions IEC61000-3-3	Complies	

Guidance and Manufacturer's Declaration- Electromagnetic Immunity:

This device is intended for use in the electromagnetic environment specified below. The user of this device should make sure it is used in such an environment.

Immunity Test	IEC60601 test level	Compliance	Electromagnetic Environment-Guidance
Electrostatic Discharge (ESD) IEC61000-4-2	±6kV contact ±8kV air	±6kV contact ±8kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/ burst IEC61000-4-4	±2kV for power supply line ±1kV for input/out line	±2kV for power supply line ±1kV for input/out line	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC61000-4-11	<5 % U _T (>95 % dip in U _T)for 0,5 cycle 40 % U _T (60 % dip in U _T)for 5 cycles 70 % U _T (30 % dip in U _T)for 25 cycles <5 % U _T (>95 % dip in U _T)for 5 sec	<5 % U _T (>95 % dip in U _T) for 0,5 cycle 40 % U _T (60 % dip in U _T) for 5 cycles 70 % U _T (30 % dip in U _T) for 25 cycles <5 % U _T (>95 % dip in U _T) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of this device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery.
Power frequency (50/60Hz) magnetic field IEC61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE: U _T is the a.c. mains voltage prior to the application of the test level			

SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

This product should be grounded. In the event of an electrical short circuit grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

DANGER - Improper use of the grounding plug can result in a risk of electric shock.

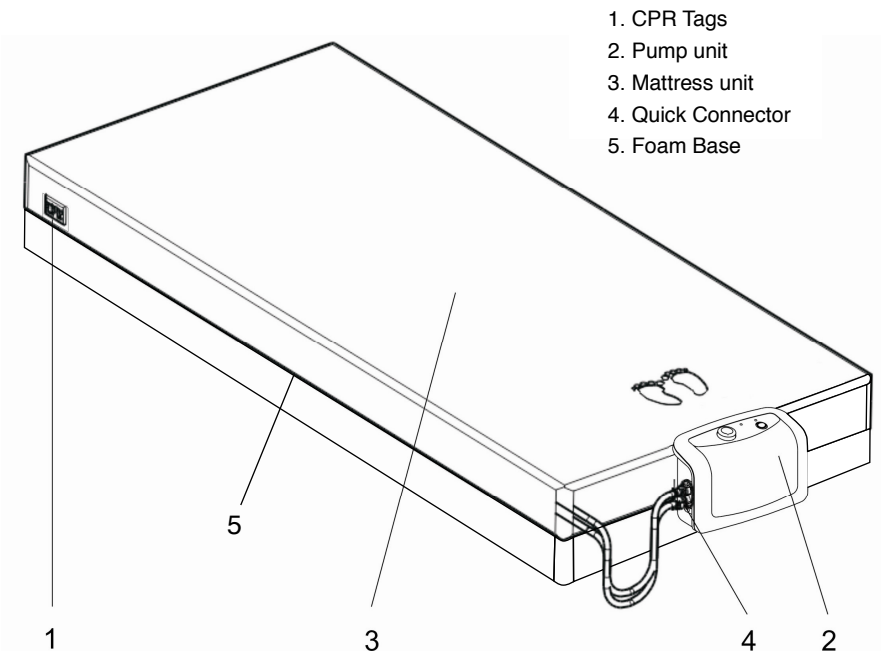
If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

NOTE - If the repair or replacement of the cord is necessary, please contact a qualified electrician or serviceman. To reduce the risk of electric shock, do not modify the cord or plug in any way.

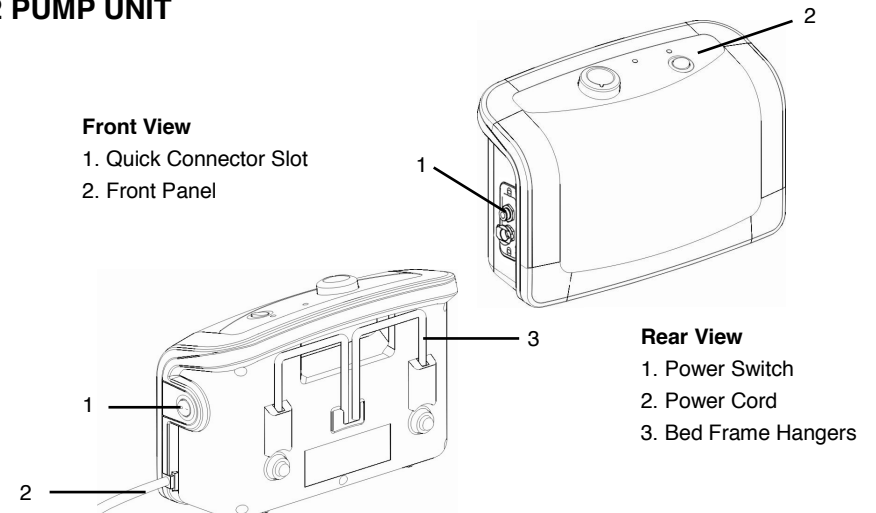
Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded.

2. PRODUCT DESCRIPTION

2.1 PUMP AND MATTRESS SYSTEM



2.2 PUMP UNIT



3. INSTALLATION

Unpack the box and check the package contents for completeness.

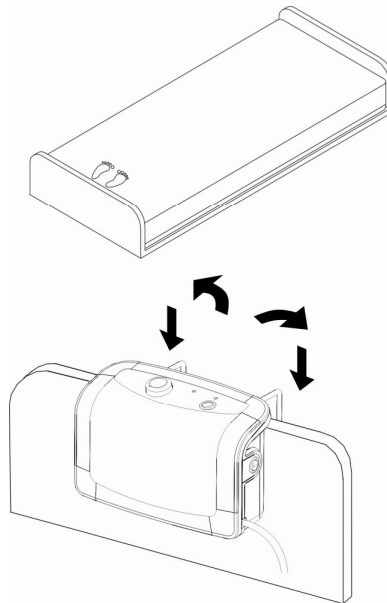
Package Content List

Mattress unit x 1 (may not be included if only pump unit is purchased)
Pump Unit x 1
User Manual x 1

Inspect equipment for damage which may have occurred during shipment. If there is damage, please contact your dealer immediately.

3.1 PUMP & MATTRESS INSTALLATION

1. Place the mattress system on top of a bed frame.
Orient the mattress so that the foot-markers on the mattress are situated towards the foot end of the bed (where pump will be located).

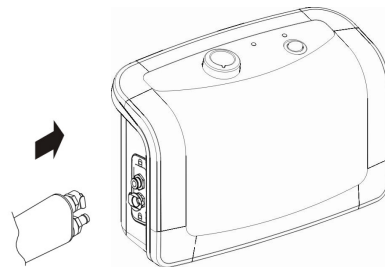


2. Place the pump hangers over the bed railing at the foot of the bed. Support the pump from the bottom and turn the hangers outward (or inward) to secure the pump against the railing.
If no bed railing is available, place the pump on a flat, sturdy surface or on the floor, beneath the bed.

3. Connect the Quick Connector on the air hose (from air mattress) to the pump unit Quick Connector Slot. When you hear a "click", the connection will be secured.



NOTE: Check and ensure the air hoses are not kinked or tucked under the mattress.



8. TECHNICAL DESCRIPTION

Specifications:

Item		Specification
Power Supply (Note: See rating label on the product)		AC 100-120V 60 Hz, 0.16 A 14W (For 120V System)
Fuse Rating		T1A, 250V
Cycle time		Fixed, 8 min @ 60Hz,
Environment	Temperature	Operation: 10°C to 40°C (50°F to 104°F) Storage: -15°C to 50°C (5°F to 122°F) Shipping: -15°C to 70°C (5°F to 158°F)
	Humidity	Operation: 10% to 90% non-condensing Storage: 10% to 90% non-condensing Shipping: 10 % to 90% non-condensing
Classification		Class II with functional ground, Type BF, IPX0 Applied Part: Air Mattress Not suitable for use in the presence of a flammable anesthetic mixture (No AP or APG protection)
Mattress		Specification
Model		5" +3" Replacement
Dimension (L x W x H)		200 x 90 x 12.7 (cm) or 78.7" x 35.4" x 5"
Weight		5.2 kg or 11.4 lb
Pressure Range		Adjustable Weight Settings



- NOTE:** 1. Consult the distributor or EU representative for further technical documents.
2. These specifications are also applicable for other regions operating with the same power supply.
3. Mattress dimensions and weight is measured without foam;

6. MATTRESS STORAGE

1. Lay the mattress on a flat surface, upside-down.
2. Roll-up the mattress starting from the head until you reach the foot of the mattress.
3. Use the straps at the end of the mattress and stretch them around the mattress to prevent it from unraveling.



Note: Do not fold, crease or stack the mattresses.

7. MAINTENANCE

7.1 GENERAL

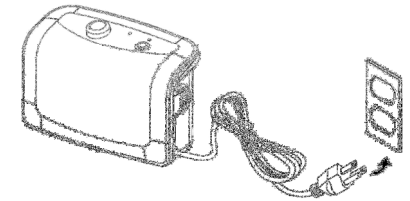
1. Check the main power cord and plug for abrasions or excess wear.
2. Check the mattress cover for signs of wear or damage.
3. Disconnect the air tube from the mattress. Then check the airflow coming from the two air outlets on the pump. They should be alternately delivering air when the pump is set at “alternate” mode.
4. Check the air hoses for kinks or breaks. For replacement, please contact your local distributor.

4. Plug the power cord into a electrical outlet with the appropriate voltage.



NOTE: The pump unit must be suitable for the local power voltage.

NOTE: S'assure que la pompe est compatible au voltage local ou disponible.



6. Turn the main power switch (on pump) to the ON position. After you turn on power to the pump, you will have to wait at least 20 minutes for the mattress to become fully inflated.

The low pressure indicator (yellow LED) will illuminate while the mattress is pressurizing.

When the appropriate pressure is reached, the Low Pressure indicator (yellow LED) will go off and the Normal Pressure indicator (green LED) will illuminate. The bed is now ready for use.



NOTE: You can unplug the unit to power-off the device.

NOTE: L'appareil est également muni d'une fiche de connexion à l'électricité.



CAUTION: The pump supplied with the mattress can only be used for mattresses recommended by the manufacturer. Do not use it for any other purpose. (applied part: air mattress)



AVERTISSEMENT : La pompe ne peut être utilisée qu'avec le matelas designé ou r recommandé par le manufactureier,. Ne pas server d'ysage autre que celui auquel elle a été conçu




NOTE: (For models WITHOUT the low-air-loss function) During power outages, you can cover the Quick Connector with the transport cap to maintain air pressure inside the air cells.

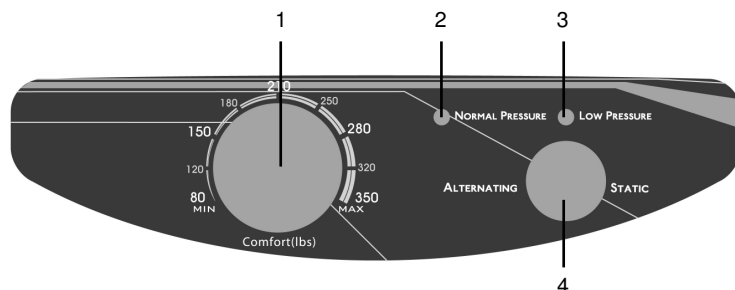


NOTE: After installation, make sure any excess cord or tubing is removed from possible foot traffic to avoid accidental tripping. All EQUIPMENT should be positioned to always allow unhindered patient access by physicians and caregivers.

4. OPERATIONS

 **NOTE:** Always read the operating instructions before use.


4.1 PANEL OPERATIONS




1. Pressure Adjustment Knob

The pressure adjustment knob controls the air pressure in the mattress. Turning the knob clockwise will increase the pressure; counter-clockwise decreases the pressure. Higher pressures will support heavier patients. The pressure should be adjusted according to individual comfort preferences.

When the mattress is finished pressurizing to the desired level of firmness, the Normal Pressure LED indicator will illuminate.

 **NOTE:** You can also check if the pressure is suitable for the patient by sliding one hand beneath the air cells at the level of the patient's buttocks. The air cells will alternately inflate and deflate. You should feel slight contact with the buttocks when the air cells beneath the buttocks deflate.


 **NOTE:** Every time the mattress is initialized (inflated), it is recommended that you set the pressure knob to "Max" to hasten inflation. You can then adjust the air mattress to the desired firmness later.

2. Normal Pressure Indicator

When the green LED illuminates, the pressure inside of air mattress has reached the desired pressure setting (preset on the Pressure Adjustment Knob).

3. Low Pressure Indicator

When the mattress is initializing, the Low Pressure LED will illuminate until the appropriate pressure is reached (according to the Pressure Adjustment Knob); this is normal. Otherwise, the Low Pressure LED is a warning, indicating that the pressure in mattress is unusually low. Check to ensure all connections are secured and correctly installed as per the installation instructions.

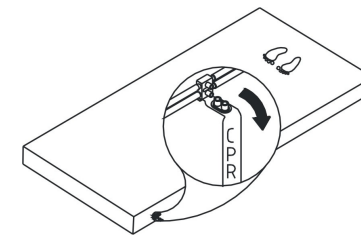
 **NOTE:** If the pressure level is consistently low, check for any leakage (tubes or air hoses). If necessary, replace any damaged tubes or hoses or contact your local qualified dealer for repair.

4. Alternate / Static Switch

The ALTERNATE/STATIC switch selects between Alternate Pressure mode and Static Pressure mode. With Alternate Pressure mode, alternating air cells are partially deflated and inflated, avoiding prolonged pressure on any single point beneath the patient; this is to prevent pressure ulcers. With Static Pressure mode, all of the air cells are equally inflated.

4.2 Emergency CPR Operations


CPR must be performed on a firm surface. Therefore, if an emergency CPR situation occurs with the patient on the mattress, the mattress must be quickly deflated. This is done by quickly pulling on the CPR tag located at the head of the mattress on the patient's right-side. The quick connector found from the pump unit can also be disconnected to hasten deflation.




5. CLEANING


It is important to follow the cleaning procedures before first-time use with any patient; this is to avoid the possibility of transmission of pathogens between patients and caregivers.

Wipe down the pump unit with a damp cloth pre-soaked with a mild detergent. Avoid contact with dust and proximity to dusty areas. Make sure that any cleaning agents you use will not harm or corrode the plastic casing on the pump unit.

 **CAUTION:** Do not immerse or soak the pump unit in liquids.

Wipe-down the mattress unit with a damp cloth pre-soaked with warm water (do not exceed 65 °C) containing a mild detergent. Avoid dust and proximity to dusty areas. The cover may also be cleaned using sodium hypochlorite diluted in water. All components should be air dried thoroughly before use.

 **CAUTION:** Do not use phenolic based products for cleaning.

 **CAUTION:** Do not dry the mattress in direct sunlight.